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A24b-15/00 (24-08-72)...

TOBACCO SUBSTITUTE - PREP'D FROM LOW TEMP
CARBONISED. CELLULOSE FOIL. CONTG FILLER AND
OPT NEUTRAL SALTS..NEW

Low-temp. carbonised cellulose foil, e.g. paper strip, contg. 5-50 wt. % (based on cellulose) inorganic fillers and opt. 1-20 wt. % soluble neutral salts, and having 5-30 (15-25) wt. % degree of degradation and a 1: 0.8 to 1:1 C:H₂O ratio determined by elementary analysis

USE

Tobacco substitute or additive for smoking.

ADVANTAGES

Low smoke condensate, e.g. 0.5-3 mg/cigarette at 0.7-1g filler wt., good organoleptic properties, good processing ability.

DETAILS

Fillers are esp. Al(OH)₃, opt. mixed with Fe(OH)₃, and/or pptd. silicic acid or silica sol. The filler-contg.

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cellulose strip is heated at 150-300°C. Opt. presence of 1-20 wt. % soluble neutral salts, esp. MgAl-, MgFe-, on Mn citrate, or NaCl, and/or 1-10 wt. % oxidising agents, esp. K permanganate, MnO₂, NH₄ vanadate and/or H₂O₂, promote smouldering.

EXAMPLES

(a) A paper strip with 44.6 wt. % Al(OH)₃, is heated at 240°C.

Example	Time	Wt. % loss of foil	C:H ₂ O	Condensate mg/g
1	1 hr.	14	6:6	3
2	2	25	6:5.7	2.8
3	3	30	6:6	2.1
4	5	39	6:5.2	1.4

All foils were cut easily, (2) could be rolled. (1) formed strong-, (2) less and (3) slight smoke; (2) had weakly cellulosic and (3) no taste nor sharpness, (cf. commercial nicotine-poor cigarette forming 21.1mg condensate).

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